

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

- 1-7. (Canceled)
8. (Currently Amended) An angle sensor: comprising,  
a rotatable cylindrical magnet ~~whose one~~ having a first semi-circle portion  
~~magnetizing-magnetized to as an~~ N pole, and ~~whose another~~ a second semi-circle portion  
~~magnetizing-magnetized to as an~~ S pole;  
a magnetoelectric conversion element fixedly mounted within ~~relatively rotated~~  
~~with the~~ rotatable cylindrical magnet; and  
a correction part provided on an outer circumferential surface of the cylindrical magnet to  
correct axial magnetic flux density distribution.
9. (Currently Amended) An angle sensor according to Claim 8, wherein the  
correction part is an annular groove formed in ~~consonance with circumference~~ the outer  
circumferential surface in the axial direction ~~central part~~ of the cylindrical magnet.
10. (Currently Amended) An angel sensor according to Claim 9, wherein the groove  
~~is shaped as~~ has a rectangular ~~groove~~ cross-sectional shape.
11. (Currently Amended) An angle sensor according to Claim 9, wherein the groove  
~~is shaped as~~ has a semi-circular ~~groove~~ cross-sectional shape.

**Amendment Under 37 C.F.R. § 1.116**  
**USSN 10/782,841**  
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12. (Currently Amended) An angle sensor according to Claim 9, wherein the groove  
~~is shaped as~~ has a V groove cross-sectional shape.

13. (Canceled)

14. (Previously Presented) An angle sensor according to Claim 8, wherein the  
magnetoelectric conversion element is disposed at a center of the rotation axis.